IN THE SPECIFICATION:

Please substitute the attached sections or paragraphs of pages 9, 10, 11 and 12 for the relevant sections or paragraphs of pages 9, 10, 11 and 12 of record.

Section 4 of Page 9 of Specification:

1.1.1) Start loop for the attenuator element (k)

$$\frac{\sigma a + \sigma a + Z_{(k)} \times \sigma a}{P E_{(i;j;k)} - P P_{(i;j;k)} - C_{(i;j;k)}}$$

$$\mu_{a(i;j;k)} = [\sigma a_{PE(i,j,k)} + \sigma a_{PP(i,j,k)} + Z_{(k)} x \sigma a_{C(i,j,k)}] x \rho_{(k)} x A v / A_{(k)}$$

where: $\sigma_{PE(i,j,k)}$ = effective photoelectric absorption cross-section

σa C(i,j,k) = Compton effective absorption cross-section

Section 2 of Page 10 of Specification:

$$\mu_{a}^{(Nal)} = [\sigma a^{(Nal)} + Z_{(Nal)} X \sigma a^{(Nal)}] X \xrightarrow{Av} X \rho(Nal)$$

$$\underline{(i,j)} \qquad PE(j) \qquad C(j) \qquad \underline{A_{(Nal)}}$$

Section 2 of Page 11 of Specification

$$\sigma dif_{C(j')} \ (NaI) \ x \ z_{(NaI)} \ x \ Final \ flux_{(i,j',k)} \ x \ Av \ x_{\rho(NaI)} \ x \\ \hline \overline{A_{(NaI)}}$$

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Section 2 of Page 12 of Specification

$$= \sigma dif_{C(j'')} (Nal) \times Z_{(Nal)} \times final flux_{(i,j,k)} \times Av \times p_{(Nal)} \times X_{(Nal)}$$

$$A_{(Nal)}$$

where: $\sigma dif_{C(j^*)}$ (Nai) = effective Compton front scattering cross-section

Section 5 of Page 12 of Specification

$$= \sigma dif_{C(j''')} (NaI)xZ_{(NaI)} x final flux_{(i,j,k)} x Av x \underline{\varrho}_{(NaI)} x X_{(NaI)}$$

$$\overline{A_{(NaI)}}$$

where: $\sigma dif_{C(j''')} =$ effective Compton background scattering cross-section.